



"Bear patiently if thou canst not
bear joyfully."
—THOMAS A. KEMPIS.

BULLETIN

of the
**Mahoning
County
Medical
Society**

No. 3
1941

Vol. XI
March

"...Casein Modified"



Curd of
Breast Milk



Curd of
Cow's Milk



Curd of
SIMILAC



Made from fresh skim milk (casein modified) with added lactose, salts, milk fat, and vegetable and cod liver oils.

In human milk $\frac{2}{3}$ of the protein is in true solution, while in cow's milk only $\frac{1}{6}$ of the protein is soluble. During the process employed in preparing Similac the soluble proteins in cow's milk are increased to a point approximating the soluble proteins in human milk. How greatly this improves the digestibility is indicated by a comparison of the curd (insoluble calcium paracaseinate) formed by cow's milk, with the soft flocculent curd of Similac. The softer the curd the shorter the digestive period.* Similac, like breast milk, has a consistently zero curd tension.

* Espe & Dye — "Effect of Curd Tension on the Digestibility of milk"
— Amer. Journal Diseases of Children — 1932, Vol. 43, p. 62.

SIMILAC } SIMILAR TO BREAST MILK

M & R DIETETIC LABORATORIES, INC. • COLUMBUS, OHIO

BULLETIN THE MAHONING COUNTY MEDICAL SOCIETY

OFFICERS AND COUNCIL

O. J. WALKER, President
Home Savings & Loan Bldg.

WALTER K. STEWART, Pres. Elect
Stambaugh Bldg.

JOHN NOLL, Secretary
101 Lincoln Avenue

ELMER H. NAGEL, Treasurer
1705 Market Street

CLAUDE B. NORRIS }
WM. M. SKIPP } Censors
R. B. POLING }

DEAN NESBIT }
GORDON G. NELSON } Delegates
EDW. J. REILLY }

WM. H. EVANS }
IVAN C. SMITH } Alt. Delegates
G. M. McKELVEY }

BULLETIN COMMITTEE

CLAUDE B. NORRIS, M. D., Editor

Associate Editors

L. FISHER, M. D.

W. H. EVANS, M. D.

SAUL TAMARKIN, M. D.

B. POLING, M. D.

I. PAUL HARVEY, M. D.

BARCLAY BRANDMILLER, M. D.

S. DEITCHMAN, M. D.

P. J. MCOWEN, M. D.

G. E. DeCICCO, M. D.

MRS. ORRIN W. HAULMAN, Woman's Auxiliary

Published monthly at 787 Wick Avenue, Youngstown, Ohio

Annual Subscription, \$2.00

COMMITTEE CHAIRMEN—1941

Name	Editorial	Phone	Address
CLAUDE B. NORRIS	Editorial	37418	244 Lincoln Avenue
WM. H. EVANS	Program	42147	Dollar Bank Bldg.
WALTER K. STEWART	Public Relations & Economics	41974	Stambaugh Bldg.
G. M. McKELVEY	Sub-Com. on Public Relations	77224	101 Lincoln Avenue
IVAN C. SMITH	Sub-Com. on Economics	65207	Home Sav. & Loan Bldg.
JOSEPH C. HALL	Sub-Com. on Indigent Relief	66568	243 Lincoln Avenue
I. P. BROWN	Social	75126	Home Sav. & Loan Bldg.
WM. M. SKIPP	Lay Education	42996	243 Lincoln Avenue
W. J. TIMS	Postgraduate Day	39418	19 Lincoln Avenue
DEAN NESBIT	Legislative	66703	Home Sav. & Loan Bldg.
H. E. HATHORN	Public Health	21821	2636 Glenwood Avenue
W. McNAMARA	Medical Preparedness	63128	Dollar Bank Bldg.
K. ALLSOP	Hospital Relations	66113	Home Sav. & Loan Bldg.
J. MCOWEN	State Correspondence	43321	Central Tower
R. McCONNELL	Membership and Attendance	36221	19 Lincoln Avenue
N. McCANN	Housing & Library	42774	2724 Mahoning Avenue
C. MARINELLI	Publicity	39553	Central Tower
H. SMELTZER	Medico-Legal	66568	243 Lincoln Avenue
W. H. HEBERDING	Field Army Against Cancer	66476	151 W. Rayen Avenue
E. E. ODOM	Hard of Hearing	42147	Dollar Bank Bldg.
A. J. BRANDT	Auxiliary Advisory	35244	Dollar Bank Bldg.

Vol. XI—No. 3

CONTENTS

March, 1941

ADVERTISERS' LIST	66
PRESIDENT'S PAGE	72-75
EDITORIALS	73
ESSAY CONTEST	75
THEOPHRASTUS BOMBASTUS	76-77
CHLOROPHYL	78-79
MEDICAL CRIER	87-89
SECRETARY'S REPORT	89
TUBERCULOSIS SANATORIUM	91
ORNSTEIN'S CLASSIFICATION OF PULMONARY TUBERCULOSIS	93
WOMAN'S AUXILIARY	93-95
DENTAL MEETING	96

ADVERTISERS' LIST

Patronize them—they make the
"Bulletin" possible

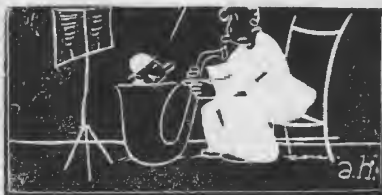
Barry Allergy	88
Blair's Dry Cleaning.....	84
Buck, Dr. Maynard A.	84
Central Square Garage.....	66
Cross Drug Store.....	70
Denver Chemical Mfg. Co.	82
Di-Dee Service	94
Fair Oaks Villa.....	67
Foster, Helen Mantle.....	94
Francis, J. P. Agency.....	70
Giering's	94
Golden Age Ginger Ale.....	96
Heberding's	84
Isaly	74
James & Weaver.....	66
Liebel-Flarsheim Co.	68
Lyons Physician Supply Co.	88-92
McKelvey's	86
Mead-Johnson Co.	Cover
Medical-Dental Bureau	92
Mercer Sanitarium	71
Merrell Co.	69
Murberger & Lambert	88
Ortho-Products, Inc.	Cover
Renner's	70
Rest Home	94
Schmidt, Paul	70
Scott Company	68
Similac	Cover
Strouss-Hirshberg's	90
Thornton	86
Treudley, H. H. & Co.	94
White's Drug Stores.....	90
Youngstown Sanitary Milk.....	71
Zemmer Co.	86

This Publication is printed
by the

**YOUNGSTOWN
PRINTING CO.**



HO! HO! RUDY—
Now I'll blow The Central
Square Garage's Six Delici-
ous Services—



1. Indoor Parking.
2. Washing.
3. Gasoline.
4. Oils.
5. Lubrication.
6. Summerizing the car.

Central Square Garage

"Where Doctors Meet"

Wick & Commerce Phone 35167
24-HOUR SERVICE



**OFFICE
FURNITURE**



Venetian Blinds

James & Weaver

"Office Outfitters"

4-4427

W. Wood

March

Since 1894

FAIR OAKS VILLA

Sanitarium

CUYAHOGA FALLS, OHIO



A Modern Institution for
the Treatment and Care of
**NERVOUS and
MENTAL PATIENTS**
ALCOHOL AND DRUG ADDICTION



SPECIAL FACILITIES
PROVIDED FOR...

- ★ Occupational Therapy
- ★ Recreational Therapy
- ★ Hydrotherapy

Member American Hos-
pital Association and
Central Neuropsychiatric
Hospital Association

ETHAN A. PAISLEY
BUSINESS MANAGER



THE MOST COMPLETE . . .



**Short and Ultra-Short Wave
Generator . . . Ever Built**

**LIEBEL-
FLARSHEIM**

Dual-Wave
Model SW-550

Two machines in one . . . develops an abundance of power . . . uses **every known** short and ultra-short wave applicator . . . offers every feature, every refinement you have ever wanted in a short wave generator! Simple and easy to use, controls **on top of unit** . . . all easily understandable. Facts and figures on this exceptional unit are available for the asking.

Send today for literature. No obligation.

THE LIEBEL-FLARSHEIM CO.

303 W. 3rd Street

Cincinnati, Ohio

D. L. MANLEY, Dist. Mgr.

472 Arden Rd., Mt. Lebanon, Pittsburgh, Pa.

Phone: Lehigh 1655



PATRONIZE OUR ADVERTISERS AND MENTION THE BULLETIN



*If you like a white
shirt for office wear*

Try the Arrow Dale — a smooth, lustrous broadcloth — trubenized Collar — either single or double cuff — sizes up to 17½ — sleeves 32 to 36.

Priced at \$2.50

The Scott Company

32 North Phelps Street

March

For BETTER Management of Essential Hypertension

MORE GRADUAL



PROLONGED VASODILATION

Nitranitol—scored tablets containing $\frac{1}{2}$ gr. mannitol hexanitrate—is available at prescription pharmacies in bottles of 100 and 1000.

Although known and clinically evaluated some years ago, only recently has a method been developed for economical production of a nitrate having a more gradual and prolonged vasodilating action than any previously-used hypotensors.

NITRANITOL

(MANNITOL HEXANITRATE—MERRELL)

Since the action of Nitranitol is characterized by gradual onset and long duration, the danger of arterial damage through repeated violent pressure reductions is minimized. By adjusting dosage to the patient's needs (usually 1 or 2 tablets every 4 to 6 hours) arterial pressure can be *maintained* at a point where symptoms of hypertension are avoided. This long continued action is useful also in forestalling attacks of angina pectoris.

Samples and complete literature on request

THE WM. S. MERRELL COMPANY
Founded 1828 CINCINNATI, U. S. A.

DRUG	DOSE	EXTENT OF FALL <small>(from 100 mm. Hg.)</small>	REACHING AND RETURNING FROM MAXIMAL FALL	MAXIMAL FALL MAINTAINED
<i>Spic glyceryl nitratis</i>	2-3 mins.	25-30		
<i>Sodium nitrite</i>	2-3 grs.	32		
<i>Erythrol tetranitrate</i>	$\frac{1}{2}$ -1 grs.	35		
<i>Mannitol hexanitrate</i> (NITRANITOL)	1 gr.	35		
			Hours 1 2 3 4 5 6 7 8 9 10 11 12 13	

the work of Matthew, as summarized by Sollmann, T.: *Manual of Pharmacology*, Philadelphia, W. B. Saunders Co., 1936, page 483.)

Youngstown Owned and Operated

CROSS DRUGS

6 EAST FEDERAL STREET

In the Stambaugh Bldg.

1 WEST FEDERAL STREET

In Central Tower Bldg.



WE INVITE YOU TO VISIT OUR
PRESCRIPTION DEPARTMENTS

Five Pharmacists to Serve You.

Prescriptions Delivered to Your Patient.



PATRONIZE OUR ADVERTISERS AND MENTION THE BULLETIN



ONE CALL FOR CLIPPER BEER CALLS FOR MORE

• Clipper Beer is expertly brewed to please you. Every sip will call for another. Try it now and make us prove our case—we are sure you'll order another. It's SO good!



Phone 44467

**THE RENNER BREWING
COMPANY**

MALPRACTICE LIABILITY

\$10,000 - \$30,000 Coverage
\$25.00

Physicians Instrument
Floater \$5.00.

Phone for Sample Policy.

THE JOHN P. FRANCIS AGENCY

1403 Central Tower Bldg.
Phone 64269

All Kinds of Cut Flowers and Potted Plants

PAUL SCHMIDT
Florist

115 Market St. Phone 2-4212
Youngstown, Ohio

THE MERCER SANITARIUM

MERCER, PENNSYLVANIA

For Nervous and Mild Mental Disorders.
 Located at Mercer, Pennsylvania, thirty miles
 from Youngstown. Farm of one hundred
 acres with registered, tuberculin-tested herd.
 Re-educational measures emphasized, especially
 arts and crafts and outdoor pursuits. Modern
 laboratory facilities.

Address:

W. W. RICHARDSON, M. D., Medical Director
Formerly Chief Physician, State Hospital for Insane, Norristown, Pa.



PATRONIZE OUR ADVERTISERS AND MENTION THE BULLETIN



Five Definite Advantages

of Sanitary's **Homogenized Vitamin D Milk**. This improved product is recommended in many cases where one or more of the following characteristics is a factor.

1. **Modified Curd**, allowing more rapid utilization of the full nutritional value of the milk.
2. **No Cream Separation**, tending toward greater uniformity of feeding.
3. **More Convenient**, insuring greater accuracy in following formulæ.
4. **Contains Vitamin D**, each quart fortified with 400 U. S. P. units animal source Vitamin D.
5. **Improved Flavor**, encouraging greater consumption in certain cases.

This product has been granted the seal of acceptance by the Committee on Foods of the American Medical Association, and is produced under the rigid supervision of The Sealtest System of Laboratory Protection.

TELEPHONE 32161



Sanitary's



Homogenized Vitamin "D" Milk

PRESIDENT'S PAGE

At our last meeting, by unanimous vote of those present, the Mahoning County Medical Society reiterated our State and National organizations' promise to the Federal Government, that the Medical Profession would support its defense program with all the facilities at its command. Ninety-eight percent of the physicians of Mahoning County have returned their Medical Defense Questionnaire. Every member of our Society has promised to do his part in carrying out the selective service plan as a patriotic duty.

During the depth of the depression when the demand for free medical service in our clinics and offices all but overwhelmed us, we coöperated with the F. E. R. A. in evolving a plan for medical relief that has since become the model throughout the State.

Now we are joining with our State Association in submitting a plan for making more easily available adequate medical care to the low income group of our citizens.

So past and present our record bears evidence of our humanitarian and patriotic zeal in the general public welfare.

All of which entitles us to study carefully, and to enter our protests in the interest of the ultimate public good medically, against the tendencies of governmental agencies to more and more invade the field of medical practice, setting up with each advance new and subtle means of political control which ultimately will eventuate in complete Federalization of Medicine. All of these new forms of State and Federal invasion of medical practice are being made in the name of defense, patriotism, social security or humanitarianism.

Those forces which sought through Federal legislation to foist a complete system of State medicine on us *en masse*, through the Wagner Health Bill, met with too great opposition and have apparently changed their strategy and seek to attain their end by a more gradual encroachment through multiple attacks at numerous points. Thus we have had health projects as a part of the program for Old Age Pensioners, Aid to Dependent Children, Crippled Children, Aid to the Blind, Infant and Maternal Welfare, Hospital Construction, Federal Farm Bureau, etc., all with their humanitarian appeal and all paying a small and inadequate fee for medical services demanded. Now two new projects are announced, viz., the N. Y. A. Health Program, and the Public School Health and Physical Education Program, both originating in Washington, having enormous Federal appropriations (the latter \$200,000,000), working through State agencies down to local organizations who carry out the program, but who take their instructions down to the smallest details from Washington.

To the 1941 Ohio General Assembly has been presented no less than ninety-five bills having to do with public health and medical practice (a new all-time record). Some are good and in the interest of better medicine and better public health protection. Some are of minor importance with little or no effect on medicine and health. Many are dangerous with far reaching import to medical practice and public health.

The American Medical Association, the District of Columbian Medical Society, the Harris County Medical Society, the Washington Academy of Surgery and many prominent individual physicians are now on trial in the

(Continued on Page 75)

March

Editorials---

Dr. Adams Gives Us Headaches

When a situation lends itself so perfectly as practically to coin a wise-crack, the inevitable result is to over-play it. That's why it is well to say that the title, "Dr. Adams gives us Headaches" is emphatically not a wise-crack. At the meeting of the Society, Tuesday evening, February 18th, Dr. Adams demonstrated how an ordinary subject when handled by an extraordinary man may itself become of extraordinary interest.

Dr. Adams was very simple and practical in his approach to the problems of headaches. They're intracranial or toxic or miscellaneous. He pointed out several sources of diagnostic and therapeutic errors and emphasized the part played by various mental maladjustments growing out of social and economic environments.

Speaking Further of Headaches

While this is a figure of speech—it describes accurately what these Selective Service examinations are to the twenty-two doctors who perform this patriotic, sacrificial duty. What with making their own livings, examining about 7000 men a year is a staggering burden to so few men. Dr. F. W. McNamara, the Chairman of our Defense Committee, was just about down-for-the-count—he gave one the impression of a gallant fighter, who was very, very groggy!

Of course, "Headaches" of this kind along with intracranial physical headaches, all become bearable when pressure is relieved. Dr. A. E. Brant, a member of Dr. McNamara's Committee, offered a resolution calling for 100 percent participation of our

membership in making these examinations.

Naturally, it was adopted unanimously.

Headaches!

As if we had not enough—personal and otherwise! War, Wheeler, Roosevelt, New Deal, Old Deal, Hitler, the Coal Bill—oh, for some socially effective aspirin!

C. B. N.

ISALY DAIRY ENTERTAINS DOCTORS

On February 6th a very pleasant and profitable evening was spent by 105 of our members, when the Isaly Dairy Company was host to the Mahoning County Medical Society.

Many of us have admired the stately new tower which faces Mahoning and Glenwood Avenues. When illuminated at night the sight is really arresting, and we have wondered what the inside of the building was like.

Those who were there found that the interior, with the modern settings, the exotic panelling and murals were even more beautiful than the exterior.

The guests were taken, in small groups, for a tour of the plant, where the preparation of milk and other dairy products were thoroughly explained. To most of us it was very interesting and instructive.

By the time the tour was completed we were all glad to sit down to a tasty dinner, which was served in the beautiful ball room. After the dinner, Prof. Max Wolf of the Youngston College Faculty spoke on the subject "What America Means to Me."

The entire affair was very enjoyable and will long be remembered by those who were there.

—L. S. D.



Modern Symbol of Achievement and Progress

Glorifying, in its modern design and splendor, the dairy and ice cream industry of America, the Youngstown plant of The Isaly Dairy Company stands as a magnificent symbol of achievement and progress. Its beauty is yours to enjoy and its modern manufacturing and product-protecting facilities are a guarantee to you of the quality and cleanliness of all Isaly Dairy Products. You and your friends are invited to visit and inspect this new Youngstown plant of The Isaly Dairy Company at any time.

ISALY'S

Dairy Specialists

PRESIDENT'S PAGE

(Continued from Page 72)

District of Columbia, indicted for alleged violation of the Sherman Anti-Trust Act.

Here again those forces who seek to completely Federalize medical practice in this country are using tactics that closely simulate the plots in some of the old-fashioned melodramas of years ago. In order to becloud the issue and minimize resistance the villain first besmirches the character of the widow whom he intends to rob of her rightful heritage. So thus our hands are tied!

If the hand-writing pointed only to the Medical Profession our freedom might be sacrificed on the altar of nationalism with few to mourn until the folly of idol worship was later realized.

But the trend is of far greater significance than the complete socialization of medicine. Each group, professional and commercial, is too interested in its own problems of defense against national socialistic changes to see the import of the movement to change our American way of life. Already we have almost complete socialization of financial and educational institutions, and agriculture. Slowly and insidiously medicine and industry are being brought in line. A large army and navy and a well organized secret service are being created by the central government.

History but repeats itself! With complete national socialism freedom of speech, religious worship, enslavement of labor, censorship of the press and radio, and persecution of minority groups inevitably follows. All in the name of national defense, patriotic duty, economic security and humanitarianism!

As medical men our training bids us answer the call of distress whenever and wherever it occurs. As loyal citizens our patriotic duty bids us make available our medical knowledge for our country's defense. Our minds, trained to analyze causes and effects bid us pause and reflect where all this is leading us.

What are we to do about it all? Who knows the answer to our dilemma?

O. J. WALKER, M. D., President.

MISSISSIPPI VALLEY MEDICAL SOCIETY 1941 ESSAY CONTEST

The Mississippi Valley Medical Society offers annually a cash prize of \$100.00, a gold medal, and a certificate of award for the best unpublished essay on any subject of general medical interest (including medical economics) and practical value to the general practitioner of medicine. Certificates of merit may also be granted to the physicians whose essays are rated second and third best. Contestants must be members of the American Medical Association who are residents of the United States. The winner will be invited to present his contribution before the next annual meeting of the Mississippi Valley Medical Society at Cedar Rapids,

Iowa, Oct. 1, 2, 3, 1941, the Society reserving the exclusive right to first publish the essay in its official publication—the *Mississippi Valley Medical Journal* (incorporating the *Radio-logic Review*). All contributions shall not exceed 5000 words, be typewritten in English in manuscript form, submitted in five copies and must be received not later than May 1, 1941. The winning essay of the 1940 contest appears in the January, 1941, issue of the *Mississippi Valley Medical Journal* (Quincy, Ill.). Further details may be secured from

Harold Swanberg, M. D., Secretary
Mississippi Valley Medical Society
209-224 W. C. U. Building
Quincy, Illinois.

THEOPHRASTUS BOMBASTUS

(Continued)

After twenty years in practice . . .

But before proceeding, let it be known that the second installment is written not so much at the request of the editor as in response to a flood of fan mail.

To be accurate, the fan mail consists of exactly one card from Dr. Lois M. Merkel of Sharon, Pa., who writes "THEOPHRASTUS BOMBASTUS REDIVIVUS IMMENSELY ENJOYED." (Author's capitals.)

Hurrah! Success and recognition at last.

Thanks, Dr. Merkel. Sight unseen, it is obvious that you have a discriminating literary taste, and Theophrastus will bet a cookie that you yourself can turn a neat phrase. How about becoming our Sharon correspondent and contributor to this column?

IMMENSELY ENJOYED!

Would it be immodest to dwell just a little longer on this beautiful and well earned tribute? Confidentially speaking, Dr. Merkel, you are not the only one who enjoyed it. Theo himself enjoyed it, too, which makes it two. Oh, the joy of seeing oneself in print! It is a pleasure reserved only for the literati and cognoscenti.

For what does the average aesculapian proletarian know of the exquisite joy of gloating over a literary brainchild? Or, for that matter, of the labor pains of "birthing" one? Be it only a trivial item stuck away among the ads, directly you receive the Bulletin, for example, you turn to your own stuff and avidly read and reread it. The ecstasies of a forty-year-old primipara (which the author is not), taking the first look at her newborn, are as nothing compared with it.

Just one more gloat over this glowing tribute. Theophrastus will bet a

certain rival columnist, who hides behind a double disguise of "Medical Crier" (and who wouldn't cry if they were as baldhead as Jimmie?) and "J. L. F.," that he cannot produce such testimonials to his literary skill.

But now we must resume. After twenty years of practice. . . But pardon just one more digression. We cannot dismiss Jimmie Fisher so lightly. Jimmie has done much for this Bulletin. For those who do not remember, he was its first editor and has kept up an active interest in it since. He has contributed to it some of the best writing, and for many months now he has been regularly turning out a column, which is always interesting and well written. Jimmie writes so well that his stuff usually seems casual and dashed off. But that is just the kind of writing that takes time. Finally, Jimmie is a fellow who always does his job, and does it well.

And speaking of doing a job, Theophrastus is proud of the way the medical profession has taken hold of the examining of the draftees. While the legislators are bickering and piddling and capital and labor are each trying to get their pound of flesh, *we are doing our job*—and are doing this absolutely free, and cheerfully.

Having tossed so many bouquets at Jimmie Fisher we will follow it with a brickbat. In the last issue of the Bulletin Jimmie went out on a literary limb. It seems that he has read Hemingway's "For Whom The Bell Tolls" and did not like it. That's O.K. But he goes on to classify it with "The Adventures of a Harlot," a purely bawdy book, and the only one of this kind (sic!) which Jimmie once read.

What a shocking admission! To have read only one pornographic book! Jimmie must at once correct

March

this hiatus in his education. He must forthwith provide himself with an assortment of pornographic books. The well known classic "Fanny Hill" might do for a beginning.

As for Hemingway's book, Theophrastus has enjoyed reading it. No, he will take that back, because no one can enjoy a book that describes, with so much realism, the horrors of the Spanish Civil War. It is a bit rough in spots, to be sure, but let us not act the shocked puritan. In a world filled with horrors and beastliness our sensibilities cannot remain so delicate.

And who shall draw the line between art and pornography? Or good and evil, or right and wrong, for that matter? It seems all mixed up just at present. Besides, both Jimmie and Theo may be getting beyond their depth. And as far as Hemingway's book is concerned, Mr. Hemingway would probably say, "I obscenity on your criticism."

And now garrulous Theo finds himself further than ever from his topic, which was—

After twenty years in practice Theophrastus has learned that it is not easy to make money in a crap game or in the stock market.

But having learned does he stay out? No! He is still hopeful that the "bones" will get "hot" for him some day, and is picking up a few shares—of what? "Cats and Dogs."

The incorrigible optimist.

And that is the lesson for this issue.

Special Dinner for Secretaries

The Secretaries' Organization is gathering around the festive board at 6 P. M. on March 20th at LaMaita Restaurant, 321 W. Federal Street.

Menu: Italian Spaghetti and all the trimmin's!

Don't miss a real dinner, a good time and an important announcement. All secretaries are cordially invited.

No reservations taken after March 15th, so make yours *now*.

The N. P. C.

(Pittsburgh Medical Bulletin)

The National Physicians' Committee for the Extension of Medical Service (N. P. C.) recently completed its first year of activity.

The occasion was marked by a statement of accomplishments, objectives and plans, and sources of revenue, addressed by U. S. mail to more than 170,000 physicians throughout the nation. The communication included a request for moral and financial support in the continuation of the committee's endeavors to educate the public in the implications of political medicine.

The Journal of the A. M. A., December 7 issue, states that "such an agency will find a large field for its expanded program of public enlightenment."

The current President of the Medical Society of the State of Pennsylvania is one of its Trustees, all of which should encourage the physicians of our county to assist in the work.

This work can not be prosecuted without financial support. The Committee strongly hopes that the rank and file of the profession will participate through the "Three Cents a Day Club" of N. P. C. It is the Committee's firm belief that "the active coöperation of American physicians can insure the independence of the profession." Send your \$10.95 for 1941 to "N. P. C. Treasurer," Nation Physicians' Committee, Pittsfield Building, Chicago, Illinois.

Hotel Carter will be the headquarters for the Annual Meeting of the Woman's Auxiliary to the American Medical Association which will be held in Cleveland, June 2-6, 1941. Requests for reservations should be sent immediately to Dr. Edward F. Kieger, Chairman of the Committee on Hotels and Housing, 1604 Terminal Tower Building, Cleveland, Ohio.

CHLOROPHYLL

Its Therapeutic Place in Acute and Suppurative Disease

Preliminary Report of Clinical Use and Rationale

By BENJAMIN GRUSKIN, M. D.

Director of Experimental Pathology and Oncology, Temple University, Philadelphia, Pa.

Man's fight against infection has followed two major lines of investigation: first, that of antiseptics (disinfection), or the destruction of bacteria by chemical means; and second, the immunological approach by which the individual's resistance against infection has been developed by the introduction into the host of antigenic substances, designed either to stimulate such antibody formation or to neutralize the toxic products of the bacteria.

The great objection to some anti-septic agents in the field of chemotherapy has been their irritating and toxic effects, even to the point of actual tissue destruction as well as the destruction of the infectious agent. Few of these substances have been used except in topical, local application in concentration enough to be effective as bactericidal agents.

For this reason, the use of Chlorophyll in the treatment of infections, particularly in local suppurative lesions, either of acute or chronic nature, represents a new approach to the treatment of such conditions, combining as it does a background of chemotherapy with what we believe to be a much broader biological method. Twelve hundred cases are hereby reviewed—of widely diverse character, ranging from acute infections of the upper respiratory tract and accessory sinuses to chronic ulcerative lesions of various types associated with varices, sinuses to chronic lesions of various types.

It is suggested that the action of chlorophyll consists for the most part of increasing the resistance of cells in some physicochemical manner so that enzymic digestions of the cell membrane by invading bacteria or their toxins is checked. Haas has emphasized the importance of the so-

called "intercellular phase" in tissue metabolism. He believes that chlorophyll acts on the intercellular matrix. It has stimulating effect upon the growth of the supportive connective tissue cells and the development of granulation tissue. It may be that an effective barrier to bacterial invasion is developed. The foul odor of anaerobic infections disappear after a few applications of chlorophyll preparation. Chlorophyll has the property of breaking down carbon dioxide and setting free oxygen tending to inhibit the action of anaerobic bacteria. An adverse environment for the growth of bacteria is created. Chlorophyll is a non-toxic agent and may be introduced intravenously, or orally, but its chief effectiveness is when it is used locally.

Chlorophyll is the green coloring matter of plants and is present in all growing vegetable cells. The chloroplasts of the plants consist of a colloidal mixture of proteins and other substances with four pigments, namely:

Chlorophyll A ($C_{55}H_{72}O_5N_4Mg$)
 Chlorophyll B ($C_{55}H_{70}O_6N_4Mg$)
 Carotene ($C_{40}H_{56}$) and
 Xanthophyll ($C_{40}H_{56}O_2$).

Whatever technique is used in the therapeutic application it is necessary that chlorophyll come in direct contact with the tissues involved in the pathological process. This is to permit the diffusion of the agent into the intercellular matrix where it is believed that reaction occurs. Special care must be taken in cases where there is deep ulceration with undermining edges and in racemose fistulous and sinus tracts to make sure that the chlorophyll reaches all parts of the wound.

Dr. J. Norman Coombs notes that "there are two major types of lesion

March

in which chlorophyll seems to be particularly indicated: first, in the treatment of open wounds; and second, in the treatment of deep infections associated with drainage tracts communicating within the body cavities such as the abdomen and chest. For open wounds, dressings saturated with chlorophyll solution may be applied as often as may be necessary, without fear of skin irritation. The drainage tract of suppurative processes within the abdomen or chest should be irrigated at regular intervals with chlorophyll solution. Dr. Robert F. Ridpath and Dr. T. Carroll Davis report a series of 1000 cases in otolaryngology treated at Temple University. Acute rhinitis and rhinosinusitis and chronic sinus conditions were treated with chlorophyll solution. "The following method of treatment was adopted. In acute cases, the nasal chambers are shrunk and anesthetized, after which a modified Dowling pack is used, that is, a thread is attached to each pack, which is saturated with chlorophyll solution and gently inserted into the nasal cavity, until the posterior end of the pack, passing between the middle turbinate and the septum, is resting in the region of the superior meatus, in close contact with the ostia of the sinuses emptying there, namely, the frontal, anterior ethmoid and maxillary. The ends of the thread attached to each pack are tied together across the septum, and are cut off close to the knot. Packs should be retained for one hour. The patient should be given a daily treatment. "In treating chronic sinusitis, the procedure is to have the patient procure a suction apparatus of the improved Chapman water pump type. The patient takes the position recommended by Proetz or Parkinson. While lying in this position 2-3 cc. of the chlorophyll solution are inserted into each nostril. The patient then uses the suction obtained with the pump described above. While applying suction the patient must be careful to close all nasal outlets by

the method developed by Dr. Proetz. This treatment is used once daily. The patient is able to give himself this treatment or have it given in his home."

R. B. POLING, M. D.

IN PASSING

By J. PAUL HARVEY, M. D.

Recent research by Clayton, Smith and Turner, of Nashville, Tennessee, reveal some interesting data on the effect of orange juice on gastric acidity.

Their conclusions show, (a) that a test meal of orange juice stimulates a high free gastric acidity which reaches its acme one hour after injection; (b) orange juice remains in the stomach on an average of one hour and forty-five minutes; (c) it is not known what happens to gastric acidity if a glass of orange juice is taken once a day in addition to ordinary breakfast; and (d) it is not known yet how important it is to withhold orange juice in ordinary portions in treatment of patients with ulcer.

Primary Phases of T. B. Infections

(Prepared by Dr. Howard Holmes, Chief of the Bureau of Tuberculosis Control)

Many questions as to what this type of tuberculosis is, and what it means in the control of tuberculosis have caused considerable misunderstanding. Certain definite ideas are accepted at the present time.

1. Definition of Childhood Tuberculosis, first infection type of Tuberculosis, Hilus Tuberculosis are all one and the same type of tuberculosis, and are classed as the Primary Phase of Tuberculosis infection.

2. It may occur any time in life.

3. It is the result of the aspiration of live tubercle bacilli into the lungs for the first time and the subsequent inflammatory reaction which takes place in the parenchyma of the lungs and the bronchial lymph glands.

4. It is not contagious, and therefore not a hazard to public health. It is only of value as a means of finding the original source or the open case of regular pul-

(Continued on Page 83)



This Month

Tuesday Evening,

March 18th, 1941

8:30 P. M.

YOUNGSTOWN CLUB

WE PRESENT:

Murray M. Copeland, M. D.
Baltimore, Maryland

Instructor in Surgery,
Johns Hopkins Medical School

Associate in Oncology,
University of Maryland School of Medicine

Director, Baltimore City Hospitals,
Tumor Clinic

Attending Surgeon and Consulting Pathologist,
Hospital for Women of Maryland

Author of Various Treatises Pertaining to Sur-
gical Problems on the Diagnosis and Treatment
of Neoplastic Diseases



Dr. Copeland will discuss:

Practical Treatment of Tumors and Diseases of the Mammary Gland

Always a timely and important subject.
We and our patients must surely profit by
hearing this experienced investigator and close
observer.

Next Month

Wednesday,

April 30th, 1941

ALL DAY

HOTEL OHIO



14TH ANNUAL
POSTGRADUATE
A S S E M B L Y

Morning Session

1. "Morbidity Accompanying the Therapy of Pain"
Dr. Ralph M. Waters 45 minutes
2. "Endocrine Therapy in General Practice"
Dr. Elmer L. Sevringhaus 1 hour
3. "Rationalized Therapeutic Experiences"
Dr. William S. Middleton 45 minutes—1 hour

Afternoon Session

4. "Empyema"
Dr. Joseph W. Gale 1 hour
5. "Shock, 1918-1941"
Dr. William S. Middleton 45 minutes
6. "The Service of Anesthesiology in the Modern Hospital"
Dr. Ralph M. Waters 45 minutes
7. "Thoracic Surgical Problems"
Dr. Joseph W. Gale 45 minutes

Evening Session

8. "Diagnosis and Therapeutic Problems of the Climateric"
Dr. Elmer L. Sevringhaus 1 hour

May Meeting

Dr. John A. Toomey

Cleveland

The Portal of Entry in Poliomyelitis



Prescribed for Inflammation and Congestion by physicians
 in every country of the world.

Sample on request

THE DENVER CHEMICAL MFG. CO., 163 VARICK ST., NEW YORK

In Passing

(Continued from Page 79)

monary tuberculosis, which is the real public health menace.

5. Healing occurs spontaneously in a few weeks with little or no evidence of clinical findings and consequently with or without any treatment. In other words, no special treatment is needed to control this type of infection.

Occasionally under one year generalized tuberculosis follows immediately the initial infection. This is also true sometime, when the first infection occurs after adolescence.

6. The results of healing are calcified areas in the parenchyma of the lung and the region of the bronchial lymph glands. The x-ray will visualize this. It has been proved that the calcifications may contain live tubercle bacilli which remain viable for a number of years after the original infection.

7. Positive allergy is the direct result of the initial infection and is the means used most often of discovering its presence.

ALL CASES OF TUBERCULOSIS SHOULD BE REPORTED TO THE HEALTH DEPARTMENT.

Influenza

Chemotherapy with sulfonamide derivatives is ineffective in treating influenza or influenza-like infections regardless of the degree of severity. However, occasionally in the course of what appears to be an acute tracheo-bronchitis with atypical pneumonia there appears in the sputum a pneumococcus of type I, II, III, V, VII, VIII, or XIV. Since these lower numbered types are infrequently found in healthy persons the possibility exists that they may become invasive in a patient who has severe infection of the respiratory tract.

In such a situation, particularly if the patient is over 50 years of age and has evidence of atypical pneumonia it is wise to give sulfathiazole in full therapeutic dosage for forty-eight hours. If no beneficial effect is noted in that time, the drug may be discontinued since the absence of a prompt response to an effective level of the drug in the blood suggests that the organism bears no etiologic significance.

Should the Hospitalization Group of Patients Be Discharged Earlier

Note the experience of the Jackson Co., Mo., physicians with group hospitalization.

"The abuses are exemplified as follows: Mrs. S. had nine days hospitalization for a fracture of the distal phalanx of the second toe. Dr. X. keeps all obstetrical patients in for 19 days when the average for non-G. H. S. patients in all private hospitals is 12 days. Tonsillectomy cases under G. H. S. remain 3 and 4 days, when the average for others is one or two days. Before Group Hospitalization went into effect, the average stay for an appendectomy was 10.7 days. G. H. S. patients now stay an average of 13.8 days.

"The plan is not in danger; it can be further strengthened and benefits increased, but through our carelessness an increase in rates with decrease in benefits will soon result. There is even the possibility of loss of the only physician-controlled plan in this area."

Coronary Arterial Disease

In a paper read at the 1939 meeting of the Medical Section of the American Life Convention, Dr. H. M. Marvin, of New Haven, included the following comments on coronary arterial disease:

"It must be a matter of fairly general knowledge that there are today hundreds of general practitioners who have had no special training or experience in cardiac disease or electrocardiography, but who purchase a portable electrocardiograph almost as soon as they start practice. Armed with this impressive instrument and with an air of complete confidence, they proceed to make diagnoses that would be wholly ridiculous if they did not so often result in tragedy. In my experience, their mistakes are almost never in overlooking important abnormalities, but rather in reading into the curves meanings that are entirely unjustified. It is probably very

POOR FELLOW:

I used to do just that until I took Doc's advice and put "Toothy" on Heberding's Baby Milk. It's good for the whole family too.

FLORENCE L. HEBERDING**Phone 46-32611**

PATRONIZE OUR ADVERTISERS AND MENTION THE BULLETIN

**ALCOHOLISM**

**SUCCESSFULLY TREATED
BY THE METHOD
OF**

MAYNARD A. BUCK, M. D.

*Only those patients who
sincerely desire treatment
are accepted*

ELM MANOR
REEVES ROAD - RT. 4
WARREN, OHIO
PHONE 3443

*For reference write our County,
State or National Medical Ass'n.*

**BLAIR'S
CUSTOMERS ARE SO
EASY TO 'SPOT'**

Yes!—on a crowded street—in the gaily colored ballroom or in your own home—Blair customers are standouts. They have that perfection of personal appearance made possible by excellent taste plus Texturizing and Style Control. These two exclusive Blair features are yours at no additional charge. Remember also that at either of Blair's two stores—4224 Market Street or the Main Plant Drive-in—Glenwood at Princeton—you save 15% on all cash and carry items.

PHONE 44405**NILES 22316 — GIRARD 55215***Blair's***Responsible Cleaners and Furriers**

conservative to say that there are scores of instances every day in which a diagnosis of serious heart disease is made by such inexperienced physicians, solely on the basis of changes in the Electrocardiogram that have no specific meaning. Those of you who are not in clinical medicine would probably be amazed if you knew the amount of unnecessary suffering that is caused by these deplorable mistakes. I assure you that those of us who are in cardiologic practice often see examples of severe cardiac neurosis that had their origin in the statement of a physician that the electrocardiogram showed 'coronary disease', or 'myocarditis', or 'cardiac dilatation', or (most frequently of all) 'myocardial damage.' I hope it is unnecessary to add that these diagnoses are practically never made from the electrocardiogram by those who have had wide experience and have studied the subject intensively. Scarcely a week passes that I do not see or hear of some patient who has spent six to ten weeks in bed unnecessarily because his electrocardiogram, taken and interpreted by one of these self-styled specialists, was said to show signs of coronary thrombosis. In those instances where opportunity has been given to inspect the curves, the signs upon which the diagnosis was based have usually been one of three: the combination of left axis deviation and inversion of the T wave in Lead 1, so often found in hypertensive patients who have not suffered coronary closure; slight and unimportant inversion of the T wave in Lead 3; or a precordial lead taken with the electrodes reversed, which therefore shows conspicuous inversion of the T wave. In such instances the patient has not only lost from 6 to 10 weeks from work, but he has also been made into a potential neurotic invalid."

The importance of this advice was emphasized in a course given recently by Dr. Frank Wilson, of the University of Michigan, in Electrocardiographic Diagnosis. Gleanings from

this course, proffered for the benefit of Bulletin readers, follow:

1. Cardiographic diagnosis by the "matching process" is not satisfactory. Interpretation is safer on the basis of an understanding of the electrical changes produced in the heart under varying conditions.

2. Electrocardiographic changes may occur without symptoms and without abnormal physical signs in certain acute infections and in arteriosclerotic heart disease.

3. A normal electrocardiogram may accompany abnormal physical signs, and vice versa. This makes the electrocardiogram more useful, rather than less.

4. The more advanced the disease and the more prominent the symptoms, the less the need for an electrocardiogram, and vice versa.

5. The tendency is to read too much into an electrocardiogram. It must be regarded as additional data, to be used as part of the clinical picture.

6. Don't attribute symptoms to the heart unless the heart can be demonstrated to be abnormal.

7. The electrocardiogram, as a rule, will not show:

- (a) The etiology of heart disease.
- (b) The presence or absence of heart failure.
- (c) Cardiac reserve.
- (d) Angina pectoris.
- (e) Coronary sclerosis.
- (f) Valve lesions, except as they affect heart muscle. Such changes are seen only when valve lesions are advanced. The same is true of x-ray.

A chapter of the National Organization of Symphosiarachs has been founded in Youngstown. This Society is composed of members of College Fraternities founded before 1875, and is limited to 50 members. Meetings are held monthly for social and scientific discussions. Dr. Sam Weaver was elected Vice President.

A new instrument, the Cyclotron will soon be installed at the Univer-

McKelvey's Men's Store



We could paint an alluring word picture of our new spring suits . . . and still not convince you skeptics. But the mirror doesn't lie. When you see yourself in one of these elegant 3 button, single-breasted lounge drapes you'll be as enthusiastic as we are! Hard finished worsteds, new shetlands and mixtures of checks, and herring-bones. Regular, longs, and shorts.

**2 TROUSER
SUITS ONLY.....**

\$35

(Men's Store—Street Floor—McKelvey's)



PATRONIZE OUR ADVERTISERS AND MENTION THE BULLETIN



SCIENTIFICALLY THORCLENE D CLOTHES Keeps You Fit

LADIES' PLAIN DRESSES,

MEN'S SUITS

\$1

SHIRTS, beautifully laundered,
one or a hundred, with every
dollar's worth of dry cleaning.

9c

PHONE 40155

GIRARD 46-56210

THORNTON
LAUNDRY & DRY CLEANING CO.

NILES 46-56210

**ALWAYS
DEPENDABLE
PRODUCTS**

Prescribe or Dispense ZEMMER

Pharmaceuticals. . . Tablets, Lozenges, Ampoules, Capsules, Ointments, etc. Guaranteed reliable potency. Our products are laboratory controlled.

Write for catalog.

Chemists to the Medical Profession.

THE ZEMMER COMPANY, Oakland Station, PITTSBURGH, PA.

sity of Pittsburgh. This instrument will be used in research in medicine, biology, chemistry, physics and metallurgy.

Outstanding therapeutic applications of the products of the cyclotron, according to Pitt scientists, include treatment for leukemia and cancer. Main lines of "tracer" research made possible by the instrument include the role of phosphorus in body metabo-

lism; metabolism of nerves, muscles, or cells; and the action of drugs.

Extensive research projects now in progress at the university which have special needs for the products of the cyclotron include cancer research in the School of Medicine, vitamin research and animal nutrition, studies of fertilized eggs cells, the physics of metals, and various biophysical researches.

(Pittsburgh Medical Bulletin)

THE MEDICAL CRIER

A Page of Sidelights, News and Views in the Medical Field

● Don't fail to read the opening statement of defense attorney William E. Leahy in the trial of the United States versus the A. M. A. The Medical Society of the District of Columbia et al. It appears word for word in the Journal for February 15, starting on page 620. There is a champion for the medical profession! As you read his beautiful prose, try to visualize his short, stocky figure, his strong clear voice which never faltered during the two and three-quarter hour address to the jury. Speaking extemporaneously without notes he explained the origin and reasons for medical organization, laid bare the sinister background of the G. H. A. and like a good pathologist doing a postmortem on some monstrosity, he took it apart piece by piece, laying out the rotting specimens for all to see. After such an address it would seem that the only verdict a jury of intelligent human beings could return would be one of congratulation for the defendants!

● Of course, we know in a rather abstract way that communists are at work in this country as elsewhere, fomenting strikes and discord; but if you want to know how serious, how determined and actually dangerous that movement is, read "Out of the Night." It was written by a former trusted worker and has the stamp of authenticity all over it. Already the author's identity is known and his

life threatened. He is living in seclusion on a farm in New York State, constantly armed and guarded but even Trotsky was not safe living in a miniature fortress in Mexico.

● The new plan for conducting Induction Board examinations as presented by the Medical Defense Committee and approved by the Society at the last meeting seems to be the only fair way to distribute the work. Most any member is willing to donate a reasonable amount of time to this patriotic service but it is too much to expect a few busy doctors to give a whole day to it each week. We have now definitely adopted it as a job for the whole Society. Let everyone pitch in and do his share without making excuses or asking special preference and the burden on each one will be that much lighter.

● With the work now being done on the Enabling Act we are entering the preliminary skirmishing phase leading to a great experiment in prepaid medical care of which Utopians have long dreamed. A rough outline of the plan has already been prepared by our Committee and bids fair to make some profound changes in our practice, just as prepaid hospitalization has in hospital management. It is impossible to forecast with any accuracy just how each specialist and practitioner will be affected, but in general it seems safe to assume that there will be a tremendous increase

CHERRO GUAIAL

Each Fluid Ounce Represents:

Potassium Guaiacol Sulfonate.....	8 grs.
Ammonium Chloride	8 grs.
Morphine Sulphate	¼ gr.
Chloroform	4 Min.
Tartar Emetic	½ gr.
Syrup Pinol Compound.....	q. s.

Syrup Pinol Compound is a specially prepared White Pine Compound
(Mentholated and heavily Glycerinated)

Warning—May be habit forming.

Dosage:—One or two teaspoonfuls as required.

**Formerly
SYRUP CHERRY AND GUAIACOL COMP.**

LYONS PHYSICIAN SUPPLY COMPANY

MANUFACTURING PHARMACISTS

26 Fifth Avenue

Youngstown, Ohio



PATRONIZE OUR ADVERTISERS AND MENTION THE BULLETIN



FLOWERS

"Let us say it for you"

MURBERGER *Flowers* **LAMBERT**
PERSONALIZED SERVICE

Foster Theatre Bldg.

Telephone 40239



NOW IS THE TIME TO TEST YOUR HAY FEVER PATIENTS!

Thousands of physicians in the "Hay Fever Belt" now testify to the efficacy and great personal convenience of Barry Laboratories' service.

The Barry Allergy service is an exclusively local medical prescription service. Why not write for descriptive literature: **THE BARRY ALLERGY LABORATORIES**, 220 Bagley, Detroit, Michigan, or, **LYONS PHYSICIANS' SUPPLY CO.**, 26 Fifth Ave., Youngstown. Phone 40131.

March

in the number of patients seen and treated. Many more mild illnesses will be met with and serious ones will be seen earlier. Such a condition should have a good effect on the public health. We have always been urging the public to "See your doctor early." With the economic barrier removed such a desirable situation should come to pass, and then it will become distinctly up to us to make good and prove the benefits of preventive treatment, of early diagnosis, of intelligent application of remedial agents. There is one thing which should be avoided which will make for public dissatisfaction and that is the incorporation in the agreement, of numerous exclusions. Like the fine print in many insurance policies which excludes diseases contracted from venery, excesses, narcotics, etc., etc. When a patient is sick, he is sick and the only thing about how he got sick that concerns us is to try and prevent that cause from operating again. The alcoholic neuritic is just as much in need of medical care as the introvert neurotic, and most doctors would rather treat the first one. Should we exclude the bride with salpingitis while we extent all the benefits to her careless husband who has contracted pneumonia? If we are going to do it at all, let's go "all out" and take care of every disease that makes people sick.

• You can help the British by sending in surgical instruments and medical supplies. Do your bit. J. L. F.

SECRETARY'S REPORT

The regular Council Meeting of the Mahoning County Medical Society was held at the office of the Secretary on the tenth of February, 1941.

The following application was approved by Council:

For Active Membership
Dr. Sidney L. Davidow

Unless objection in writing to this applicant is filed with the Secretary within 15 days, he will become a member of the Society.

A motion was made, seconded and duly passed to endorse the continuance of the Venereal Clinic by a resolution adopted by the Council.

The regular Meeting of the Society was held at the Youngstown Club, February 18, 1941.

The guest speaker of the evening was Dr. F. Dennette Adams, his subject "Some Clinical Consideration of Chronic Headache."

The following resolution was submitted by the Medical Defense Committee:

The following resolution regarding physical examinations of registrants for the Selective Service System is presented to the Mahoning County Medical Society:

"Whereas, the function of examining Registrants for the Selective Service System is the responsibility of all the members of the Mahoning County Medical Society rather than the function of designated individual members, and

"Whereas, the burden, the responsibility, and the sacrifice of time has become too great for the appointed examiners, and

"Whereas, the Medical Preparedness Committee of the Mahoning County Medical Society is arranging for a single station for the physical examinations of all Registrants in the County, and that all members of the Mahoning County Medical Society, without exception, should assist in the physical examinations of the Registrants and so then

"Be it Resolved, that it shall be the accepted duty of all the members of the Mahoning County Medical Society that they shall contribute their part in doing this work as shall be presented by the Committee on Medical Preparedness."

It was moved, seconded and unanimously carried to adopt this resolution.

JOHN NOLL, M. D., Secretary.



C with B

Based on opinions that the B Vitamins tend toward better assimilation when associated with Vitamin C, we prepare

ELIXIR CEBEX

A palatable elixir of B Complex vitamins as naturally found in a rich extract of Brewers Yeast combined with Ascorbic Acid (C) and fortified by the addition of Thiamin Chloride and Riboflavin in chemical form. Nicotinic Acid and or Pyridoxine (Bs) may be added if indicated and specified by you.

Indication: Nerve fatigue.

Dispensed: 6 oz. bottles.

Sig: Teaspoonful t.i.d.

WHITE'S DRUG STORES

Dependable Prescription Druggists



PATRONIZE OUR ADVERTISERS AND MENTION THE BULLETIN



Here Only in Youngstown

Worsted-Tex Suits

\$35 and \$40

Because it is a mirror-clear reflection of the requirements of the professional man: individuality that stands out pleasantly—fabrics that are all pure worsted—expensive types of fabrics and patterns—and the utmost in modern clothes design, we heartily recommend the British Lounge Model, that flatters the wearer.

*Reg. U. S. Pat. Off.

**STROUSS-
HIRSHBERG'S**

MEN'S SHOP—PHELPS ST. ANNEX



March

SINCE LAST MONTH—

Dr. and Mrs. Dean Nesbitt entertained at a dinner bridge on February 13th, at the Youngstown Country Club. Crimson satin valentine hearts were favors, and other appointments were in keeping with St. Valentine's day. At contract, prizes were awarded to the following guests: Dr. and Mrs. Raymond Hall, Dr. and Mrs. J. Allan Altdoerffer, Dr. and Mrs. D. M. Rothrock, Dr. and Mrs. Barclay Brandmiller, Dr. and Mrs. D. H. Smeltzer, Dr. and Mrs. Walter King Stewart, Dr. G. E. DeCicco, and Dr. Craig Wales.

The stork stopped at the North Side Unit of the Youngstown Hospital on February 4th and left James Franklin for Dr. and Mrs. W. F. Hatcher. He made a return visit on February 7th and left William Dean for Dr. and Mrs. G. E. DeCicco.

Dr. and Mrs. Albert J. Brandt spent a week in New York City.

Dr. and Mrs. Orrin W. Haulman spent the month of January at Eau Gallie, Florida.

Dr. and Mrs. E. J. Wenaas and children were in Florida for a month's vacation.

Dr. and Mrs. Vern A. Neel and children motored to Miami Beach, Florida, for a month's vacation. They expect to return March 4th.

Dr. and Mrs. R. G. Mossman spent a short time at Chalfonte-Haddon Hall in Atlantic City.

Dr. and Mrs. F. W. McNamara and Dr. and Mrs. F. J. Bierkamp left on February 20th for a month's vacation at Ft. Lauderdale, Florida.

Dr. and Mrs. Wm. Skipp and Dr. and Mrs. O. J. Walker spent the week end of February 15th, in Columbus.

Mrs. Claude B. Norris was hospitalized. Says she's "just loafing."

Dr. and Mrs. A. E. Brant enjoyed a visit to New York City.

Dr. and Mrs. J. B. Birch announce the birth of a daughter Katherine

on February 20th in St. Elizabeth's Hospital.

Dr. and Mrs. S. R. Cafaro are in Philadelphia where Dr. Cafaro is taking a two weeks postgraduate course in gall bladder surgery. While East Dr. Cafaro visited with Dr. R. V. Clifford who is a Senior Lieutenant in the United States Naval Hospital.

Dr. L. G. Coe discussed the surgical management and Dr. A. M. Rosenblum the medical management of gall bladder disease at the February meeting of the Staff of St. Elizabeth's Hospital. Dr. Coe gave an analysis of the hospital statistics on operations of the billiary tract for the past two years. There has been a marked improvement in the mortality over the previous ten years, and the total mortality rate of 5.2% compares very favorably with that occurring in the larger clinics.

Drs. D. H. Levy and W. E. Sovik have been placed on the Associate Staff of St. Elizabeth's Hospital.

TUBERCULOSIS SANATORIUM

The second regular staff meeting of the Mahoning County Tuberculosis Sanatorium was held on Tuesday evening, January 21st, at the Sanatorium. Owing to inclement weather there was only a small attendance.

The Scientific program consisted of an illustrated talk by Dr. E. E. Kirkwood on Ornstein's classification of tuberculosis, which is on page 93. This was freely discussed by those present.

A short business session followed, and after the meeting a tasty collation was served in the staff dining room.

In the future the meetings will be held at the Sanatorium. It is said that a good many of the doctors who volunteered their services have never seen the place, and we suggest that they attend the next meeting and look it over.

L. S. DEITCHMAN, M. D., Sec'y.

WELCOME, POSTGRADUATES

SURGI-GUENT

Ideal for

BURNS

Contains: Balsam Peru, Boric acid, Oxide Zinc, Phenol 2% in a specially prepared base which adheres to the gauze on redressing.

Indicated in cutaneous affections of an irritable nature, such as Eczema, Acne and ringworm, and in scalds, cuts, and abraded surfaces.

If anaesthesia is desired ask for Surgi-Guent with Benzocaine and Picric acid.

PATRONIZE YOUR ADVERTISERS

LYONS PHYSICIAN SUPPLY CO.

26 Fifth Avenue

Youngstown, Ohio

Phone 40131



PATRONIZE OUR ADVERTISERS AND MENTION THE BULLETIN



THE MEDICAL-DENTAL BUREAU

is

"STEAMLINING" COLLECTIONS

The above is not a typographical error—we do mean "steamlining." We **are** injecting a bit of steam in our collection activities as the following figures will indicate—

Total Collections for February.....\$9,029.35
(A new high for Bureau collection records)

Total number of payments.....2,638

Total number of accounts paid in full..... 438

The Bureau collected \$100.00 or over for **28** Doctors.

The Budget Plan was also responsible for payment of \$2,610.51 to Bureau members. This simply means \$2,610.51 will not cause any collection worries in the future to these doctors.

For those who consider 90% in hand now better than 100% on the books with the possibility of collection later on—we strongly recommend **THE BUDGET PLAN.**

Call the Bureau for any details of the Plan not entirely clear to you.

J. L. Price

March

ORNSTEIN'S CLASSIFICATION OF PULMONARY TUBERCULOSIS

By E. E. KIRKWOOD, M. D.

Primary Infection or Complex.

Consists of lesion in parenchyma of lung and greater reaction in regional lymph nodes.

Heals by resolution and calcification.

Diagnosed by tuberculosis testing of all contacts, of an open pulmonary tuberculosis case, and following all positive reactions by x-ray of lungs.

Treatment—essentially—rest.

Super-Infection.

Manifests itself by two general types of reaction.

1. Exudative reaction which may be subdivided into two types.

A. Lesions which resolve.

(a) Exudative Benign which is sudden in onset. Within a few months the exudate is absorbed, leaving no trace on x-ray of the previous infection.

(b) Exudative productive which is sudden in onset, and slightly more extensive than the above type, but there is no death of tissue. The exudate is absorbed after a longer period of time, leaving a few small area

of productive changes in the x-ray films.

Treatment—Rest in bed is chief essential. No collapse therapy needed.

B. Lesions which do not resolve.

(a) Caseous pneumonic sudden in onset. Reaction is severe with death of tissue, caseation and necrosis, followed by liquefaction and sloughing out with resulting cavity formation.

Treatment—Collapse therapy essential.

2. Productive Reactions.

(a) Invasion is insidious. Begins in terminal bronchide and slowly spreads through the lung from apex to base. Is also known as acinous productive tuberculosis or chronic productive tuberculosis. May require twenty years to involve both lungs, but is always slowly progressive. **Treatment**—only needed during exacerbations. Collapse therapy has no effect upon the course of the disease.

The above classification was described by Dr. Ornstein in 1930. It essentially depends upon x-ray findings, and may be used as a working basis in planning the treatment of the different types of tuberculosis.

WOMAN'S AUXILIARY OF THE MAHONING COUNTY MEDICAL SOCIETY

By MRS. O. W. HAULMAN

The February meeting of the Auxiliary was held at the Y. W. C. A., on Monday the seventeenth. Due to the absence of the president, Mrs. R. M. Morrison and of Mrs. John Heberding, vice-president, the meeting was conducted by Mrs. Charles Hauser, president-elect.

A luncheon was arranged by Mrs. MacNamara, Mrs. Bierkamp and their committee. About seventy members were present.

After luncheon, Dr. O. J. Walker spoke to the members about the

"Enabling Act." He explained just what the act was and what it hoped to accomplish if passed by the Legislature. He then told how we could help in getting this information before the general public. Some work had already been done on this. Mrs. Walter K. Stewart, our Public Relations Chairman, in coöperation with Dr. G. M. McKelvey, contacted a great many civic organizations and saw that they received explanatory pamphlets for distribution among their members.



The Rest Home

A quiet home-like place, where invalids, convalescents, and the elderly can rest; under competent care, with good food at reasonable rates. For further information phone 2-5-6-2-2.

Boardman-Poland Road
Youngstown, Ohio



SPENCER

Your Spencer Corset and Brassiere will be individually designed for your figure and **yours only.**

HELEN MANTLE FOSTER

Registered Spencer Corsetiere

543 Ferndale

Phone 2-4940



PATRONIZE OUR ADVERTISERS AND MENTION THE BULLETIN



Drink Pepsi Cola

Bottled & Distributed by
The J. F. Giering Bottling Co.
Youngstown, Ohio
Phone 6-2212

H. H. TREUDLEY & CO. INC.

123 E. COMMERCE STREET
OFFICE SUPPLIES
ACCOUNT BOOKS

STEEL & WOOD OFFICE
FURNITURE

For Prompt Service
Call 4-4479

Infant DI-DEE SERVICE **FOR MOTHERS and BABIES**

Here is a new service, trifling in cost, which answers a long felt need for Mothers and Babies. Before you invest in diapers, ask your doctor about it. He'll tell you Infant Di-Dee Service is one of the finest investments you can make for your baby's health!

Di-Dee Service

1220 Market Street

Phone 3-7700

Youngstown, Ohio

Sterilized diapers delivered twice weekly. FREE Nursery Hamper with this service.

March

Dr. Walker called to our attention the joint meeting of the A. M. A. and the State Association to be held at Cleveland in May. There will be a meeting of the different auxiliaries and entertainment will be provided. Anyone wishing to make reservations for this meeting should do so without delay.

Mrs. Hauser then called on several members, who responded with "Current Events in Medicine." The following spoke briefly. Mrs. W. K. Allsop discussed Wagenstein and Miller-Abbott tubes. Mrs. W. D. Coy gave a quotation from Alexander Pope. Mrs. L. G. Coe's subject was Powdered Blood and what had been done with Blood Banks in the War. Mrs. Mermis talked on High Fever Therapy; and Mrs. Goldblatt on the Sulfanilamide Group.

A suggestion was made by Mrs. Weinberg that we become active in gathering drug samples, which were to be sent to England. A question was raised as to the advisability of this and it was decided to take no action until further investigation could be made.

Mrs. McDonough announced that anyone who had not obtained a Year Book or membership card could get them from her.

The next meeting of this organization will be held on March 24th, at the Nurses' Home of the North Side Hospital. Mrs. G. M. McKelvey is chairman of this meeting and will present a Style Show.

It may seem to anyone reading this that we are more interested in social activity than any real work. This is really not true, for this matter of getting acquainted with each other so that we may work together with more understanding and coöperation is important. If there is work to do, we can do it.

NOTIFY YOUR PATIENTS

Physicians and dentists who are called for military service can secure handy forms from the Medical-Dental Bureau for distribution to their patients before they leave and when they return. These forms read as follows:

Doctor's Defense Leave Notice

Dr. announces that on and after..... he will be out of the city for full time military service with the United States forces for an indefinite time. Meanwhile, he has made arrangements with the following colleagues to care for his practice while he is in the service of his country.

Dr.
Office Address.....Tel.....
Home Address.....Tel.....
Dr.
Office Address.....Tel.....
Home Address.....Tel.....

If for any reason you are unable to reach your doctor's alternate, the Medical-Dental Bureau, 4-4513, will upon request assist you in locating a doctor.

Doctor's Return Notice

Dr. announces that he has returned from active military duty and is ready to care for his patients on and after.....

Office Address.....Tel.....
Office Hours.....
Home Address.....Tel.....

The Bureau makes no charge for this service. Forms can be obtained in sufficient quantities to notify your patients by calling the Bureau.

In the April issue we will endeavor to publish a list of the doctors from Mahoning County who have been called to service.

All doctors are urgently requested to turn in their relief statements promptly at the end of each month.
Indigent Relief Committee.

GREAT DENTAL MEETING

Dr. Robert H. Ivy, of the University of Pennsylvania, Postgraduate School of Medicine, addressed the Corydon-Palmer Dental Society's meeting, Thursday evening, February 27th, 1941, at the Youngstown Club. It was a dinner meeting to which the Mahoning County Medical Society was invited. The response of the physicians was most enthusiastic—and the event proved most enjoyable as well as highly profitable.

Present were more than 100 visiting physicians, as well as about all the dentists from all around—Cleveland and Pittsburgh being very well represented.

Dr. Sam Farkes is president of the Corydon-Palmer Dental Society, Dr. Chessrown is secretary, and Dr. Kerr, Chairman of the Program Committee.

GOLDEN AGE GINGER ALE

Manufactured in One of America's
Finest Beverage Plants



GOLDEN AGE GINGER ALE CO.

Distributors

**Kingsbury-Schlitz-Miller's
Hi-Life and Tip Top Beers**

PHONES: 3-3333

4-4107



PATRONIZE OUR ADVERTISERS AND MENTION THE BULLETIN



The Sixth Annual POSTGRADUATE INSTITUTE of THE PHILADELPHIA COUNTY MEDICAL SOCIETY

to be held

March 31, April 1, 2, 3, 4, 1941

at

**THE BELLEVUE-STRATFORD HOTEL
Philadelphia, Pa.**

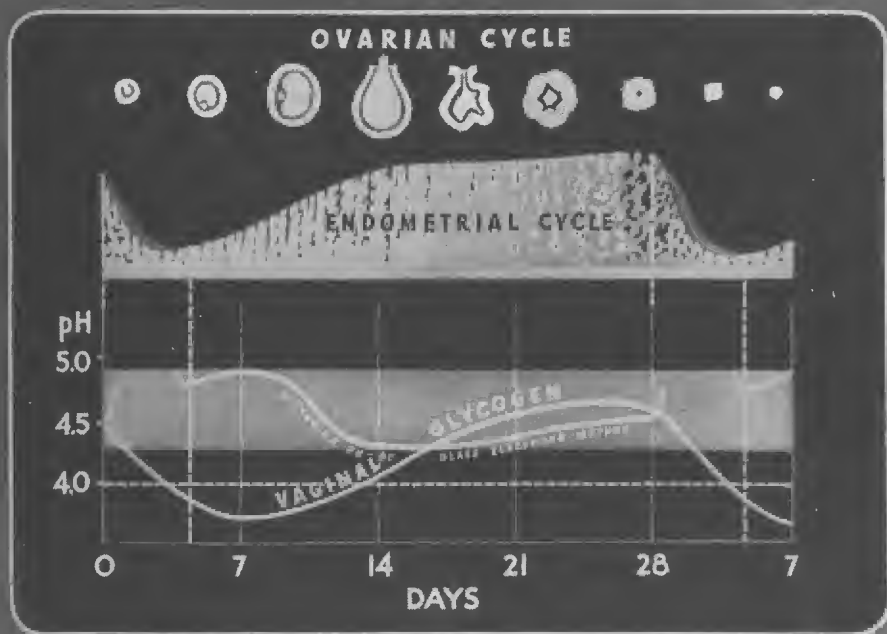
"Symposia on Modern Therapy"

(Led by a large group of eminent men)

Send Registration to:

POSTGRADUATE INSTITUTE
The Philadelphia Co. Medical Society
301 South Twenty-first St., Philadelphia, Pa.

March



From the motion picture, "Studies in Human Fertility," by Ortho Products, Inc.

The Glycogen Factor

• Glycogen, deposited in the vaginal epithelium under hormonal influence, is a factor in the production and maintenance of the vaginal acidity. The above illustration is based on iodine stained vaginal smears through the 28 day cycle in a group of normal women. The intensity, after a low level in the postmenstrual phase, gradually rises

to a peak, maintaining a high level in the last week of the cycle.

Glycogen utilization and resultant vaginal acidity represent important aspects of vaginal biology. The normal mid-vaginal acidity lies between 4 and 5. The pH of Ortho-Gynol is 4.5, approximating normal conditions.

ORTHO PRODUCTS, INC., LINDEN, N. J.

COPYRIGHT 1941, ORTHO PRODUCTS, INC.

ortho-gynol

VAGINAL JELLY and ORTHO DIAPHRAGMS

- 1930 Tisdall, F. F., Drake, T. G. H., and Brown, A.: A new cereal mixture containing vitamins and mineral elements, *Am. J. Dis. Child.* 40:791-799, Oct. 1930.
- 1931 Tisdall, F. F.: Dietary factors and health, *Soc. Tr., Am. J. Dis. Child.* 42:1490, Dec. 1931.
- 1932 Summerfeldt, P.: The value of an increased supply of vitamin B₁ and iron in the diet of children, *Am. J. Dis. Child.* 43:284-290, Feb. 1932. Morse, J. L.: Fads and fancies in present day pediatrics, *Pennsylvania M. J.* 35:280-285, Feb. 1932. Henricke, S. G.: The vitamin B complex: Its role in infant feeding in the light of our present knowledge, *Northwest Med.* 31:165-169, April 1932. Langhorst, H. F.: Vitamins: Their role in the prevention and treatment of disease, *M. J. & Rec.* 135:326-329, April 6, 1932. Crimm, P. D.: Dietary of Childhood Tuberculosis: Cereal as a source of added mineral and vitamin elements; preliminary report, *J. Indiana M. A.* 25:205-206, May 1932. Troutt, L.: Quality studies of therapeutic diets: I. The ulcer diet; a committee report, *J. Am. Dietet. A.* 8:25-32, May 1932. Summerfeldt, P., Tisdall, F. F., and Brown, A.: The curative effects of cereals and biscuits on experimental anaemias, *Canad. M. A. J.* 26:666-669, June 1932. Sneed, W.: Ununited and delayed union of fractures, *Kentucky M. J.* 30:363-370, July 1932. Silverman, A. C.: Celiac disease, *New York State J. Med.* 32:1055-1061, Sept. 15, 1932. von Meysenbug, L.: Infant feeding with especial juice for the acidification of evaporated milk in infant feeding, *Arch. Pediat.* 51:390-395, June 1934. Eder, H. L.: Iron therapy: A routine procedure during infancy, *Arch. Pediat.* 51:701-713, Nov. 1934. Lynch, H. D.: Fundamentals of infant feeding, *J. Indiana M. A.* 27:571-574, Dec. 1934. Chaney, M. S., and Ahlborn, M.: Nutrition, Houghton Mifflin Co., Boston, 1934, p. 323.
- 1935 Bailey, C. W.: Anemia in infants and young children, *J. South Carolina M. A.* 31:54-58, March 1935. Kugelmass, I. N.: The recent advances in treatment of nutritional disturbances in infancy and childhood, *M. Comment* 17:5-13, March 1, 1935. Ross, J. R., and Summerfeldt, P.: Value of increased supply of vitamin B₁ and iron in the diet of children: Paper II, *Am. J. Dis. Child.* 49:1185-1188, May 1935. von Meysenbug, L.: Breast feeding with especial reference to some of its problems, *New Orleans M. & S. J.* 87:738-743, May 1935. Tarr, E. M., and McNeile, O.: Relation of vitamin B deficiency to metabolic disturbances during pregnancy and lactation, *Am. J. Obst. & Gynec.* 29:811-818, June 1935. Blatt, M. L., and Schapiro, I. E.: Influence of a special cereal mixture on infant development, *Am. J. Dis. Child.* 50:324-336, Aug. 1935. Coward, N. B.: Infant feeding, *Nova Scotia M. Bull.* 14:525-532, Oct. 1935. Tisdall, F. F.: Inadequacy of present dietary standards, *Tr. Sect. Pediat., A.M.A.*, 1935: *Canad. M. A. J.* 33:624-628, Dec. 1935. Marriott, W. McK.: Infant Nutrition, Strong, R. A.: Nutritional anemia, *Mississippi Doctor* 15:13-16, Aug. 1937. Smith, C. H.: Prevention and treatment of nutritional anemia in infancy, *Preventive Med.* 7:115-124, Aug. 1937. Saxl, N. T.: Pediatrics, in *Dietetics for the Clinician*, edited by M. A. Bridges, third edition, Lea & Febiger, Philadelphia, 1937, pp. 637-639. Boyd, J. D.: Nutrition of the Infant and Child, National Medical Book Co., Inc., New York, 1937, p. 110. Brennemann, J.: Practice of Pediatrics, W. F. Prior Co., Inc., Hagerstown, Md., 1937, Vol. 1, Ch. 25, p. 19. Griffith, J. P. C., and Mitchell, A. G.: The Diseases of Infants and Children, second edition, W. B. Saunders Co., Philadelphia, 1937, pp. 106, 111. Saxl, N. T.: Pediatric Dietetics, Lea & Febiger, Philadelphia, 1937, pp. 131-133.
- 1938 Hoffman, S. J., Greenhill, J. P., and Lundeen, E. C.: A premature infant weighing 735 grams and surviving, *J.A.M.A.* 110:283-285, Jan. 22, 1938. Krasnow, F.: Nutritional influence on teeth, *Am. J. Pub. Health* 28:325-333, March 1938. Ratner, B.: Round Table discussion on asthma and hay fever in children, *J. Pediat.* 12:399-413, March 1938. Ratner, B.: Panel discussion on the role of allergy in pediatric practice, *J. Pediat.* 13:582-604, Oct. 1938. Snelling, C. E.: Nutritional anaemia, *Bull. Acad. Med. Toronto* 12:7-10, Oct. 1938. Dauphinee, J. A.: The iron requirement in normal nutrition, *Canad. M.A.J.* 39:483-486, Nov. 1938. Summerfeldt, P., and Ross, J. R.:

SCIENTIFIC BACKGROUND

Mead's Cereal was introduced in 1930, and Pablum in 1932, by Mead Johnson & Company. Since then, the growing literature indicates early recognition and continued acceptance of these products and the important pioneer principles they represent.

reference to some of its problems during the first year, *Texas State J. Med.* 28:543-547, Dec. 1932.

1933 Wampler, F. J., and Forbes, J. C.: Calcium and phosphorus metabolism in a case of celiac disease, *South. M. J.* 26:555-558, June 1933. Brown, A., and Tisdall, F. F.: The role of minerals and vitamins in growth and resistance to infection, *Brit. M. J.* 1:55-57, Jan. 14, 1933; Effect of vitamins and the inorganic elements on growth and resistance to disease in children, *Ann. Int. Med.* 7:342-352, Sept. 1933. Crimm, P. D., Raphael, I. J., and Schnute, L. F.: Diet of tuberculous and non-tuberculous children: Effect of increased supply of vitamin B concentrate and minerals, *Am. J. Dis. Child.* 46:751-756, Oct. 1933. Smith, A. D.: Consideration of various infants' foods, *Pacific Coast J. Homeop.* 44:463-465, Sept.-Dec. 1933.

1934 Somers, R., Rotton, G. C., and Rowntree, J. I.: Possibilities of improving dental structures, *Soc. Tr., Bull. King Co. M. Soc.* 13:6, Jan. 15, 1934. Rice, C. V.: Anemia of infancy and early childhood, *J. Oklahoma M. A.* 27:125-129, April 1934. Hawky, W. A.: A few of the commoner feeding problems in infancy, *Univ. Toronto M. J.* 11:218-229, May 1934. Ross, J. R., and Burrill, L. M.: The effect of cooking on the digestibility of cereals, *J. Pediat.* 4:654-659, May 1934. Rice, C. V.: Sauerkraut

second edition, C. V. Mosby Co., St. Louis, 1935, p. 202. Summerfeldt, P.: Iron and its availability in foods, *Tr. Sect. Pediat., A.M.A.* 1935, pp. 214-220.

1936 Dafeo, A. R.: Further history of the care and feeding of the Dionne quintuplets, *Canad. M. A. J.* 34:26-32, Jan. 1936. Conn, L. C., Vant, J. R., and Malone, M. M.: Some aspects of maternal nutrition, *Surg., Gynec. & Obst.* 62:377-383, Feb. 15, 1936. Ross, J. R., and Summerfeldt, P.: Haemoglobin of normal children and certain factors influencing its formation, *Canad. M. A. J.* 34:155-158, Feb. 1936. Smyth, F. S.: Allergic diseases, *J. Pediat.* 8:500-515, April 1936. Lemmon, J. R.: Problems of the crying infant, *Southwestern Med.* 20:243-250, July 1936. Rice, C. V.: The success of treating celiac disease from a standpoint of vitamin deficiency, *Arch. Pediat.* 53:626-629, Sept. 1936. Smith, C. H.: Management of nutritional anemia in infancy, *M. Clin. North America* 20:933-950, Nov. 1936. Jeans, P. C.: Specific factors in nutrition, Round Table discussion, *J. Pediat.* 9:693-698, Nov. 1936. Young, J. G.: Meeting the requirements for proper nutrition in infancy, *Texas State J. Med.* 32:531-533, Dec. 1936.

1937 Stearns, G., and Stinger, D.: Iron retention in infancy, *J. Nutrition* 13:127-141, Feb. 1937.

Value of an increased supply of vitamin B₁ and iron in the diet of children, Paper III, *Am. J. Dis. Child.* 56:985-988, Nov. 1938. Tisdall, F. F., and Drake, T. G. H.: The utilization of calcium, *J. Nutrition* 16:613-620, Dec. 1938. Drake, T. G. H.: Introduction of solid foods into the diets of children, *Canad. M. A. J.* 39:578-580, Dec. 1938.

1939 Strong, R. A.: The most frequent causes of vomiting in infancy, *Texas State J. Med.* 34:665-676, Feb. 1939. Ratner, B., and Gruelich, H. L.: Anaphylactogenic properties of certain cereal foods and breadstuffs: Allergenic denaturation by heat, *Am. J. Dis. Child.* 57:739-758, April 1939. Brown, A., and Tisdall, F. F.: Common Procedures in the Practice of Paediatrics, third edition. McClelland & Stewart, Ltd., Toronto, 1939, pp. 77-79.

1940 Monypenny, D.: The early introduction of solid foods in the infant diet, *Canad. M. A. J.* 42:137-140, Feb. 1940. Ratner, B.: Round Table discussion on food allergy, *J. Pediat.* 16:653-672, May 1940. Rosenbaum, I., Jr.: The management of the allergic child, *Kentucky M. J.* 38:199-203, May 1940. Davison, W. C.: The Compleat Pediatrician, third edition, Duke University Press, Durham, N. C., 1940, No. 216. Kugelmass, I. N.: The Newer Nutrition in Pediatric Practice, J. B. Lippincott Co., Philadelphia, 1940, p. 372.